

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 5103

TITLE: ENGINEER II

GRADE: S-24

DEFINITION:

Under supervision, performs responsible journeyman level field and office planning and civil engineering work in the construction and maintenance of streets, buildings, drainage systems, sewers and the administration of the Subdivision Control Ordinance; and performs related work as required.

DISTINGUISHING CHARACTERISTICS OF THE CLASS:

The Engineer II differs from the Engineer III in that the Engineer II performs journeyman level engineering work, whereas the Engineer III plans, coordinates, and supervises a group of engineers and/or performs advanced specialized engineering work.

The Engineer II differs from the Engineer I in that the Engineer II performs journeyman level engineering work, whereas the Engineer I performs work of a training nature in the development of engineering skills.

ILLUSTRATIVE DUTIES:

Reviews and approves subdivision plans and maintains records of subdivisions;
Designs sanitary sewers and storm drains, and makes cost estimates;
Conducts surveys of existing structures;
Conducts final inspections of new sewer lines installed by developers or individuals;
Collects and compiles research data relating to land use;
Translates physical and statistical data into cartographic forms;
Reviews subdivision and site plans and recommends corrections;
Computes highway cross-sections and curvatures;
Computes boundary descriptions;
Reviews and revises parking design;
Prepares and presents reports to boards and commissions;
Gives information to the public;
Tabulates and records statistical data;
Studies proposed school sites;
Attends meetings and conferences;
Prepares reports.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of the principles of physics and mathematics used in civil engineering and of their application to engineering problems;

Knowledge of topographic and construction surveying, stress analysis, mechanics and properties of materials;

Knowledge of common methods and equipment used in engineering construction and of inspection methods used in reviewing such work;

Knowledge of engineering economics and real property descriptions;

Knowledge of civil engineering drafting methods;

Knowledge of the theory of urban planning;

Ability to make accurate drawings and maps;

Ability to make accurate computations and neat and accurate field notes;

Ability to collect and compile research data;

Ability to meet and deal with the public.

EMPLOYMENT STANDARDS:

Any combination of education, experience, and training equivalent to the following:

Graduation from an accredited four-year college or university with major course work in the appropriate engineering field; PLUS

One year of professional experience in the appropriate engineering field.

CERTIFICATES AND LICENSES REQUIRED:

None.

NECESSARY SPECIAL REQUIREMENTS:

Possession of a valid Virginia Erosion and Sediment Control Reviewer Certification, or the ability to obtain same within two years of appointment, is required for certain positions as identified to the Department of Human Resources.

REVISED: January 22, 2003
(Format and Necessary Special Requirements only)